

SEQUENCE LISTING

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Weselake, Randall
Alberta Research Council Inc.

<120> Transgenic Plants With Reduced Level of Saturated Fatty Acid and
Methods for Making Them

<130> 080426-000000US

<140> US 10/583,301
<141> 2006-06-16

<150> CA 2,450,000
<151> 2003-12-18

<150> WO PCT/CA04/02156
<151> 2004-12-17

<160> 12

<170> PatentIn version 3.3

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<212> DNA
<213> Synechococcus elongatus ATCC #33912, deposited as
Anacystis nidulans

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<223> delta-9 desaturase (des9, DSG), fatty acyl-CoA desaturase,
fatty acid desaturase

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<213> Synechococcus elongatus ATCC #33912, deposited as
Anacystis nidulans

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<223> delta-9 desaturase (des9, DSG), fatty acyl-CoA desaturase,
fatty acid desaturase

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Leu Phe Met Val Ala Ile His Ile Gly Ala Leu Leu Ala Phe Leu Pro
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Ala Asn Phe Asn Trp Pro Ala Val Gly Val Met Val Ala Leu Tyr Tyr
35 40 45

Ile Thr Gly Cys Phe Gly Ile Thr Leu Gly Trp His Arg Leu Ile Ser
50 55 60

His Arg Ser Phe Glu Val Pro Lys Trp Leu Glu Tyr Val Leu Val Phe
65 70 75 80

Cys Gly Thr Leu Ala Met Gln His Gly Pro Ile Glu Trp Ile Gly Leu
85 90 95

His Arg His His His Leu His Ser Asp Gln Asp Val Asp His His Asp
100 105 110

Ser Asn Lys Gly Phe Leu Trp Ser His Phe Leu Trp Met Ile Tyr Glu
115 120 125

Ile Pro Ala Arg Thr Glu Val Asp Lys Phe Thr Arg Asp Ile Ala Gly
130 135 140

Asp Pro Val Tyr Arg Phe Phe Asn Lys Tyr Phe Phe Gly Val Gln Val
145 150 155 160

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Gly Trp Ser Phe Val Val Trp Gly Ile Phe Ala Arg Leu Val Val Val
180 185 190

Tyr His Val Thr Trp Leu Val Asn Ser Ala Thr His Lys Phe Gly Tyr
 195 200 205

Arg Ser His Glu Ser Gly Asp Gln Ser Thr Asn Cys Trp Trp Val Ala
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Leu Leu Ala Phe Gly Glu Gly Trp His Asn Asn His His Ala Tyr Gln
 225 230 235 240

Tyr Ser Ala Arg His Gly Leu Gln Trp Trp Glu Phe Asp Leu Thr Trp
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Leu Ile Ile Cys Gly Leu Lys Lys Val Gly Leu Ala Arg Lys Ile Lys
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